

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

MEMORANDUM

Subject Water Measurements in Teton Basin

File Trail Creek

To Mr. Mark R. Kulp
State Reclamation Engineer
From Roy W. Thompson
Supervisor of Water Distribution

June 18, 1945

Following your instructions, the writer, accompanied by Mr. Oleen Dummer, Deputy Watermaster on Upper Snake River, made the second test run by the Department of Reclamation to determine stream losses on Trail Creek, a tributary of Teton River, in Teton County.

A series of water measurements checking the channel losses in Trail Creek and Teton River by this Department had been requested by the Upper and Lower Teton River water users; these measurements to be taken in June and September of each year, over a period of four years, beginning with the year 1943. Said measurements to determine channel losses as part of an investigation for a basis for exchange of storage water from the Island Park Reservoir for irrigation water used and diverted by water users of the Upper Teton Valley.

The first set of measurements were made during August, 1943; the second test run was planned for early September, 1943; however, at the time set water users in the Upper Valley protested against the shutting off of their water, and therefore no measurements were taken. The test measurements for 1944 were dispensed with, due to some misunderstanding between the two parties in controversy,

Arrived at Idaho Falls, as pre-arranged, at 1:00 P. M. on June 6, 1945, where I met Mr. Crandall and Mr. Dummer. After a brief discussion with Mr. Crandall, Mr. Dummer and myself left Idaho Falls for Victor. En route we stopped at Rexburg and notified Mr. Davis, Secretary of the Lower Teton River Water users, that we were going to make the June measurements of Trail Creek water for channel losses on the following day. Upon our arrival at Victor, in Teton Basin, we also advised Mr. Howard Tonks, Chairman of the Upper River water users' organization as to our purpose.

On the morning of June 7th we were joined by Mr. Eph Ricks and Mr. Martin Nave, representing the Lower River water users, and Mr. Howard Tonks, representing the Upper River water users, who accompanied us all day during the time all measurements were taken.

Due to the flow of water in Trail Creek being in excess of lower channel capacity it was not practicable to shut off all diversions; therefore, to confine water in lower reaches of Trail Creek to one channel, all of the upper diversions were not shut off during the time measurements were taken.

The results of which are as follows:

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Report showing transit loss in water of Trail Creek
Measurements taken on June 7, 1945
By R. W. Thompson and Glen Dummer

Trail Creek above Moose Junction - - - -	100.76
Moose Creek above Trail Creek Junction - -	94.14
Game Creek - - - - -	<u>87.58</u>

Total supply above all diversions - - - - 282.48

Diversions:

String Canal	10.88
Kimball - - - - -	
Ricks-Kersley - - - - -	19.00
Brissler - - - - -	.20
Edwards - - - - -	
Spencer - - - - -	25.25
Humble - - - - -	9.12
Tonks - - - - -	24.80
McBride - - - - -	.50
Johnson - - - - -	1.00
Job Peters - - - - -	.40
Town Ditch - - - - -	14.75
Overflow Est. - - - - -	<u>6.00</u>

Total Diversions - - 111.90

Trail Creek at live or
rising water 91.27

Total water accounted for - -	203.17
Total transit loss - - - - -	79.31

Percentage of loss - - - 28.30

Notes: Weather- Cool and intermittent
Showers of rain